

Application Serial No. 10/758,263
Amendment dated July 21, 2005
Reply to Office action of April 21, 2005

Amendments to the Drawings:

The attached four sheets of drawings include changes to Figs. 2, 3, 7B, and 8. These Figs. 2, 3, 7B, and 8 replace the original Figs. 2, 3, 7B, and 8. Reference numerals and their associated leader lines have been modified in Figs. 2, 3, 7B, and 8.

Attachment: Replacement sheets (4)
Annotated sheets showing drawing changes (4)

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REMARKS

Claims 39 through 51 and 54 through 81 are pending in this application. Claims 39 through 51 and 54 through 79 are amended herein. Claims 52 and 53 are cancelled herein, without prejudice or disclaimer. Claims 80 and 81 are added herein. Support for amendments to the claims and the new claims may be found in the specification as originally filed. Reconsideration is requested based on the foregoing amendment and the following remarks.

Election/Restriction:

Claim 39 has been amended. Claim 51 has been amended to clarify the phrase "use of a semi-elastic force." It is submitted that claim 51 now belongs to the same category as claim 31. Rejoinder and examination of claim 51 is therefore requested respectfully.

Objections to the Drawings:

The drawings were objected to for reference numerals that pointed to entire structures. Reference numerals and their associated leader lines have been modified in Figs. 2, 3, 7B, and 8. Withdrawal of the objections to the drawings is earnestly solicited.

Claim Rejections - 35 U.S.C. § 112:

Claims 39 through 50 and 58 were rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which is not described in the specification in such a way as to reasonably convey to one skilled in the art to which it pertains, that the inventors, at the time the application was filed had possession of the claimed invention. The specification and claims were amended to clarify the written description.

In particular, claim 39 recites a semi-elastic force applied to one of an input and an output pulleys, and an elastic force is applied to the other, and thereby both pulleys control a pressing force and an elastic force that is applied to a pulley to stabilize torque and achieve high efficient transmission at low speed and high speed ranges.

This is a gist of this invention, and is described through the text of this application. In detail, torque control by "semi-elastic force", and by "both the input and output" are disclosed at the following paragraphs:

Application Serial No. 10/758,263
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Prior Art: [0004]

Object: [0008] , [0010] , [0021] and [0023]

Embodiment: [0030]

First Example: [0052] , [0059] and [0072]

Operation (1) : [0063] , [0064] , [0065] , [0066] and [0067]

Operation (2) : [0069]

Operation(3): [0071]

Second Example: [0075] and [0076]

Third Example: [0078]

Function and Effect: [0085] and [0087]

Paragraphs [0029] and [0048] describe that a combination of a pair of functions, which acts both the functions of the reference pulley and the follower pulley is essential to two pulleys, that is, the primary pulley and the secondary pulley. Therefore it is essential to supply the follower pulley with an elastic force, and to the reference pulley with pressing force. Further in case of supplying a semi-elastic force simultaneously to the reference pulley, it means that the entire torque a transmission is controlled by both the pulleys in cooperation with an elastic force and a semi-elastic force. As a result, all of the above descriptions mean cooperation of an elastic force and a semi-elastic force.

We can find this basis in the paragraph [0030] describing that the present inventive concept does not necessarily need switching between the reference pulley function and the follower pulley function. Where either the forward mode operation or the reverse mode operation performed in overall speed ratio is included in the scope of the present invention. Especially, in paragraphs [0067] , [0069] and [0071], the transmission operation using the elastic force and the semi-elastic force is described in detail. In conclusion, claim 39 is submitted to be described adequately in the specification.

The gist of the independent claim 51 resides in that in case of both mode operations, forward mode operation and reverse mode operation, the technical conception of claim 39 is also used in each mode operation and thereby compensates the change for the worse in the transmission efficiency by means of the torque control by both the input and output pulleys. This

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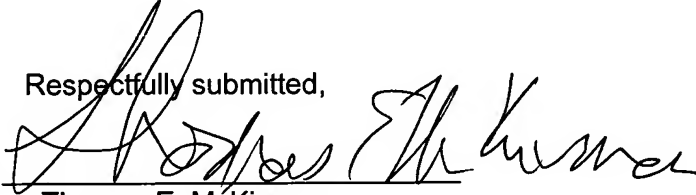
is also mentioned at the paragraphs [0061] to [0067] as an example of the forward mode and the reverse mode transmission operations. There is also disclosed at the paragraph [0052] regarding the constitution of a semi-elastic force supply passage.

In order to clarify the basis of descriptions in the specification regarding claim 39, Fig.7B and paragraphs [0069] and [0071] are amended. Claim 51 is amended to clarify the gist of the invention. And the rejection has been overcome since claims and specification have been amended to accord the name of the parts in the claims and specification. Withdrawal of the rejection is earnestly solicited.

Conclusion:

In summary, all of claims 39 through 51 and 54 through 81 are believed to be in condition for allowance.

Please charge any fee or credit any overpayment pursuant to 37 C.F.R. §§1.16 or 1.17 to Deposit Account No. 02-2135.

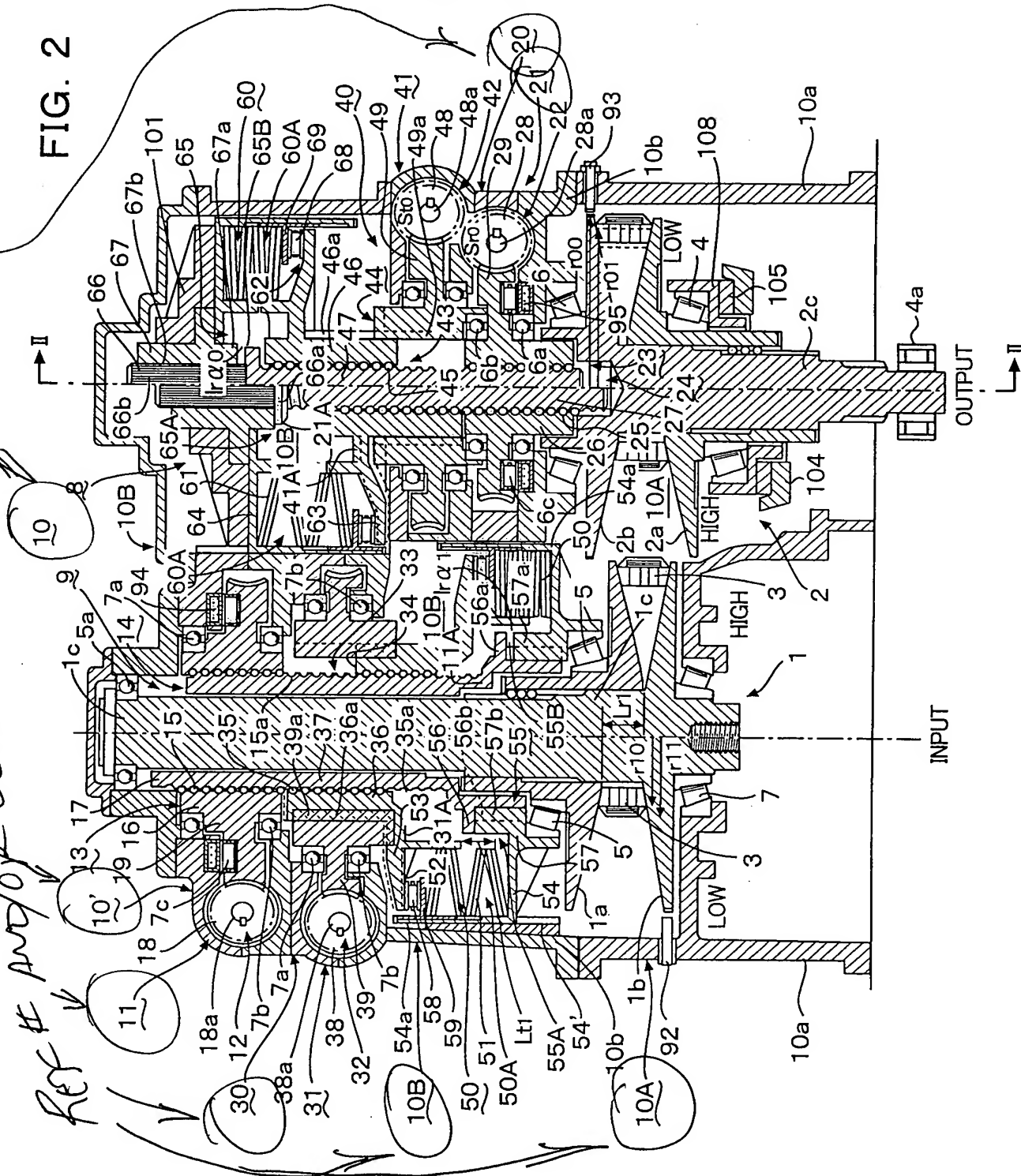
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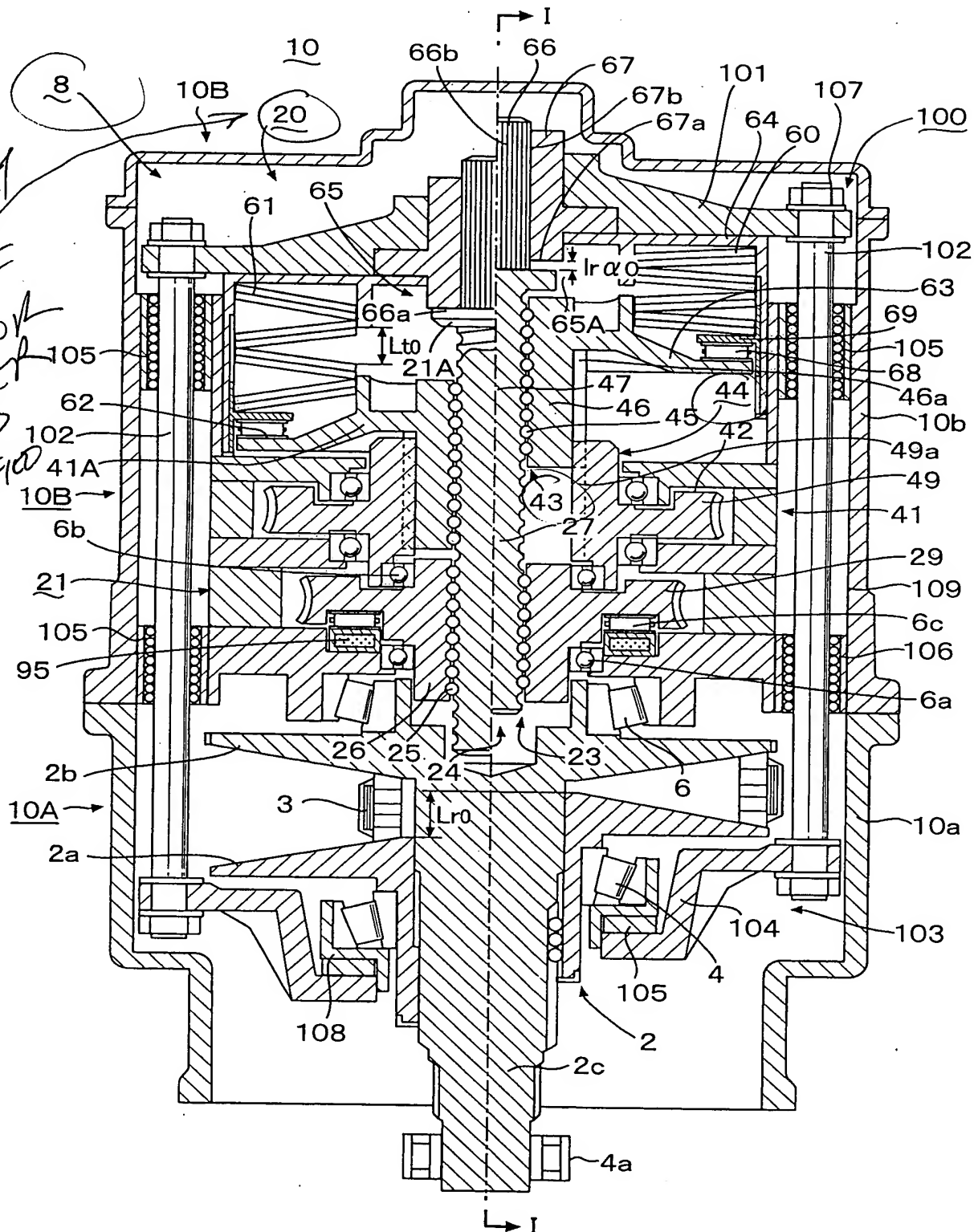
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Annotated Sheet

FIG. 2

REF # AND/OR LEAD LINES MODIFIED





Annotated Sheet

FIG. 7(A)

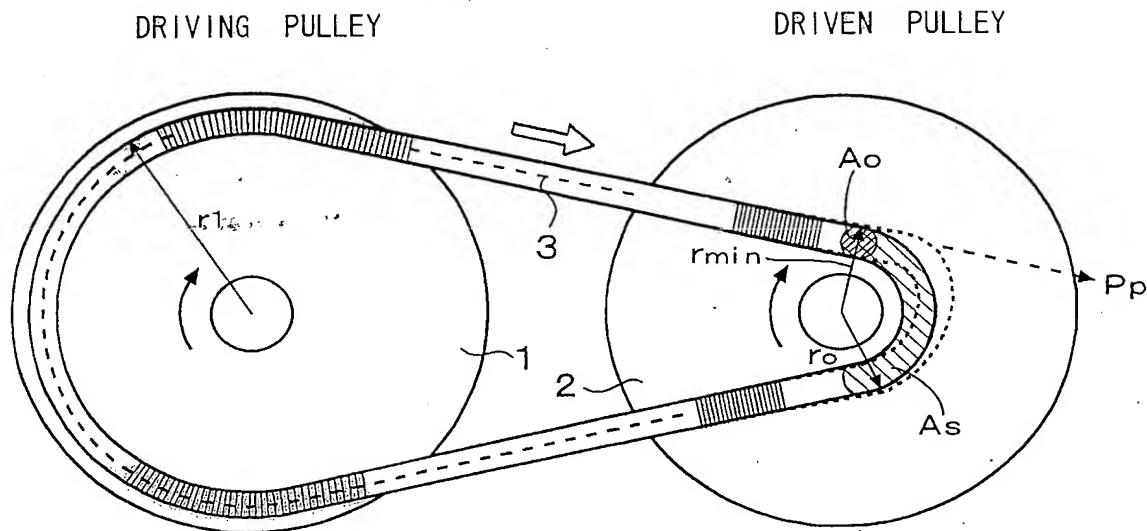
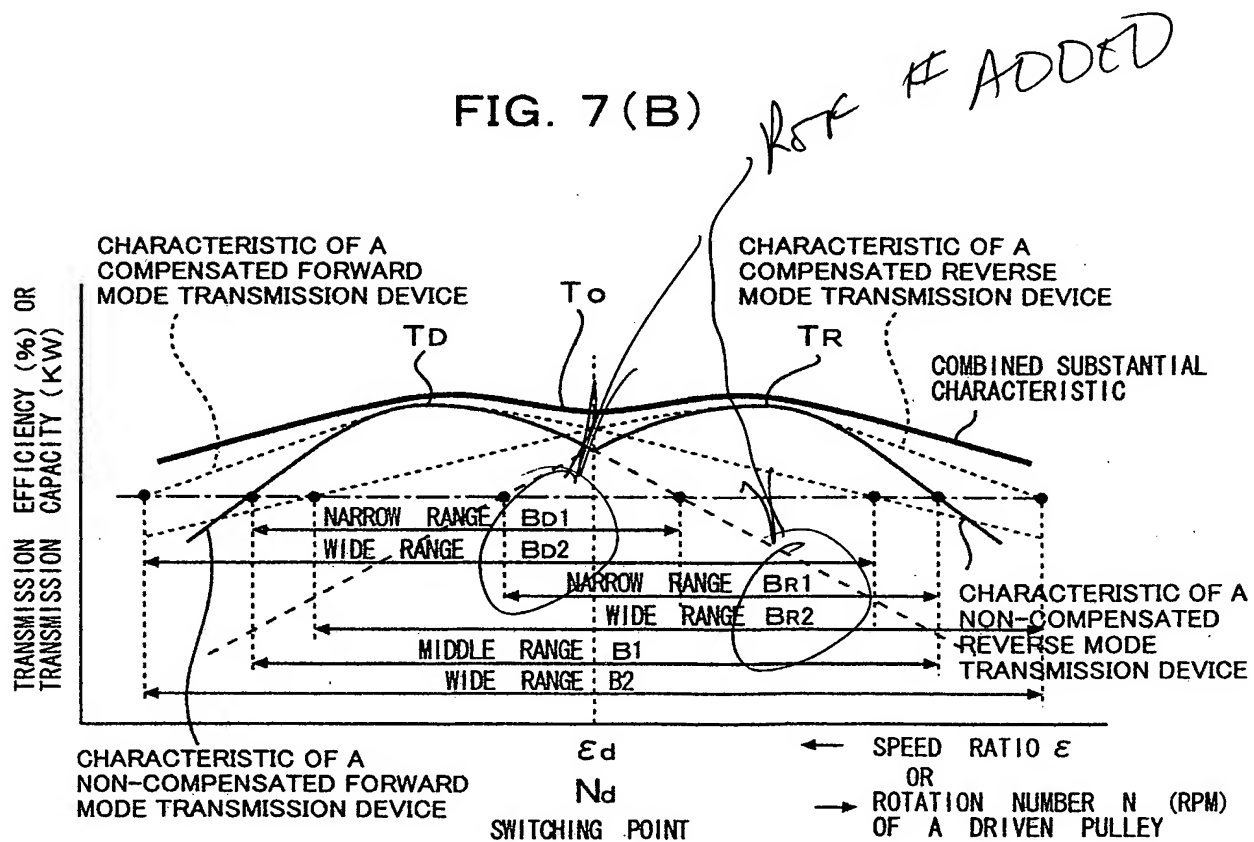


FIG. 7(B)



Annotated Sheet

FIG. 8

Ref # prior art lines Modified

